AD-A119 241 ARMY ELECTRONICS RESEARCH AND DEVELOPMENT COMMAND WS--ETC F/G 4/2
19314A MLRS, MISSILE NUMBERS BC-113, BC-126, BC-117, BC-128, BC--ETC(U)
AUG 82 D C KELLER
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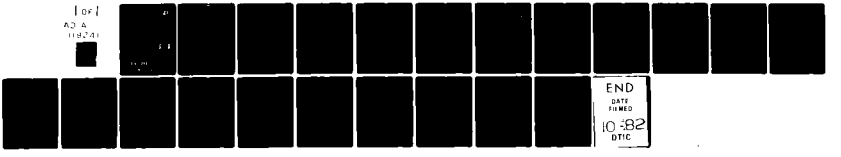


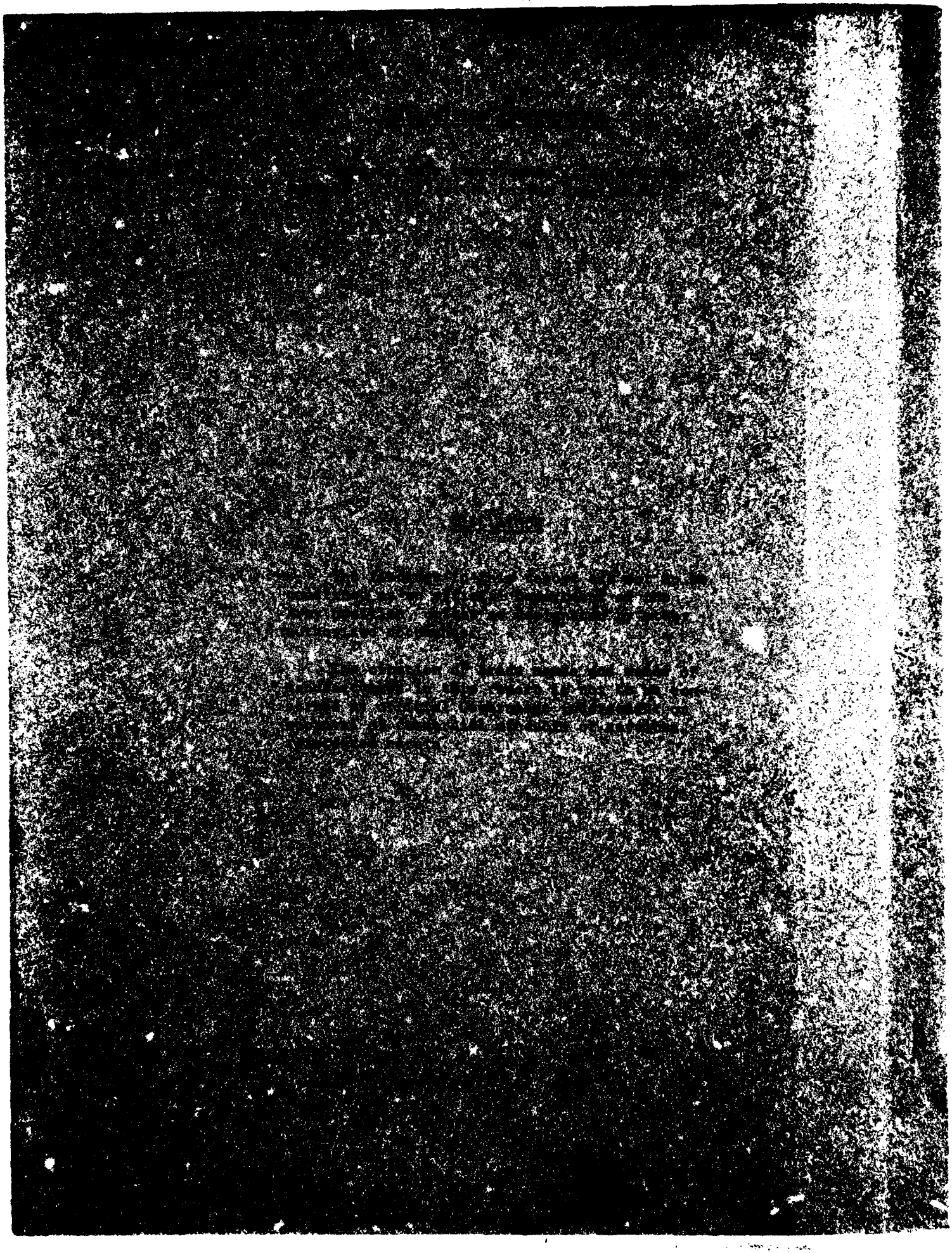
12

METEOROLOGICAL DATA REPORT
I9314M MERS
Missile Numbers BC-113, BC-126, BC-117, BC-128, BC-121, BC-131
Round Number V-306/PQ-46 THRU V-311/PQ-51
25 August 1982

by

DONALD C. KELLER
Program Support Coordinator
Phone Number (505) 679-9568
AVN Number 349-9568

ATMOSPHERIC SCIENCES LABORATORY
WHITE SANDS MISSILE RANGE, NEW MEXICO



UNCLASSIFIED

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18. SUPPLEMENTARY NOTES

19. KEY WORDS (Continue on reverse side if necessary and identify by block number)

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

Meteorological data gathered for the launching of the 19314A MLRS, Missile No. BC-113, BC-126, BC-117, BC128, BC-121, BC-131, Round No. V-306/PQ-46 Thru V-311/PQ-51 presented in tabular form.

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CONTENTS

INTRODUCTION

19314A MLRS, Missile Numbers BC-113, BC-126, BC-117, BC-128, BC-121, and BC-131, Round Numbers V-306/PQ-46 thru V-311/PQ-51, were launched from Dead Horse, White Sands Missile Range (WSMR), New Mexico, at 1202:24, 1202:28, 1202:33, 1202:38, 1202:42, and 1202:47 MDT, 25 August 1982. The scheduled launch times were 1200, 1200:04.5, 1200:09, 1200:13.5, 1200:18, and 1200:22.5 MDT.

DISCUSSION

Meteorological data were recorded and reduced by the White Sands Meteorological Team Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

a. Surface

(1) Standard surface observations to include pressure, temperature (C), relative humidity, dew point (°C), density (gm/m^3), wind direction and speed, and cloud cover were made at the MAL Met Site at T-0 minutes.

(2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.

b. Upper Air

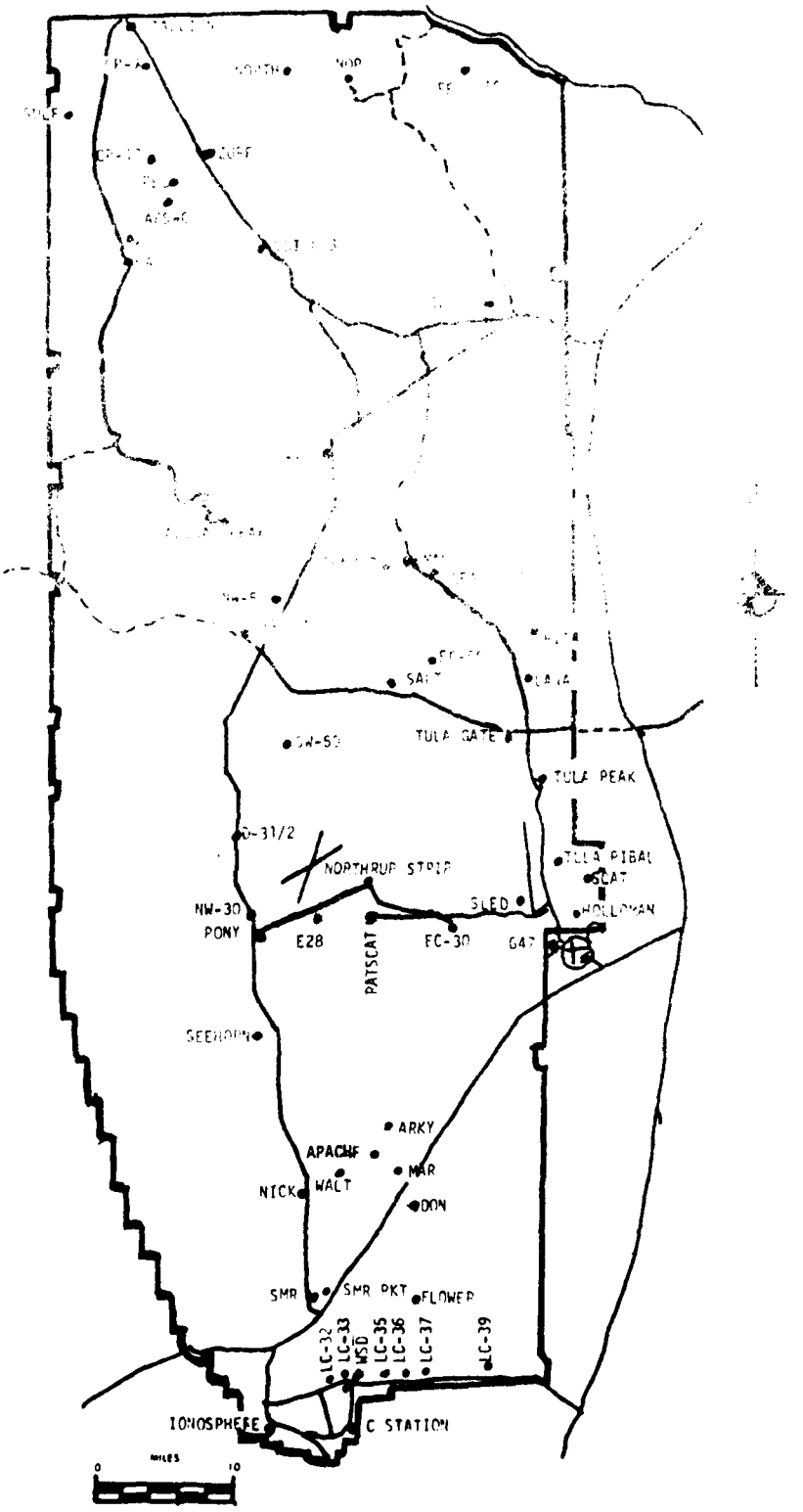
(1) Low level wind data were obtained from a pilot-balloon observation at:

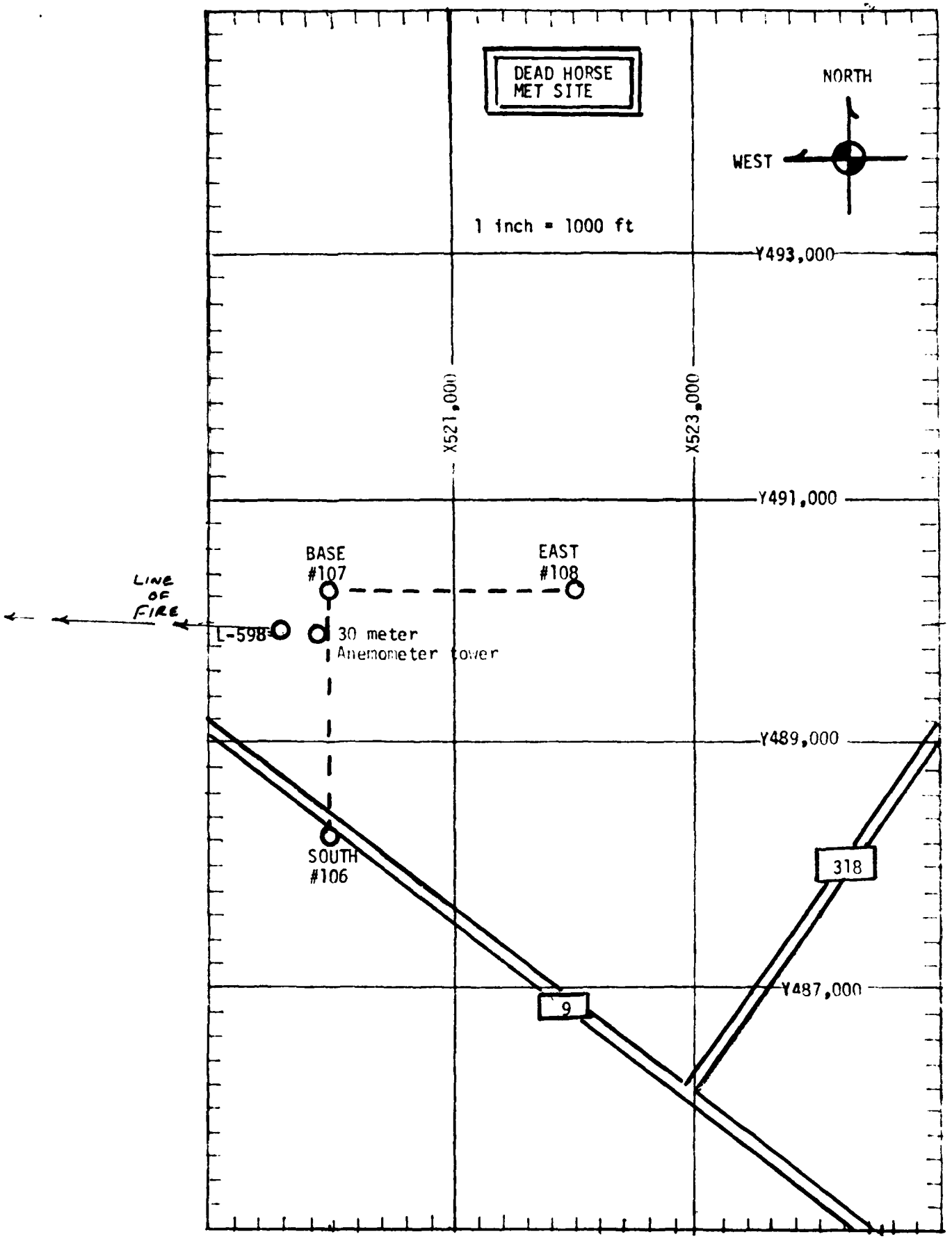
SITE AND ALTITUDE	
MAL	1550 meters

(2) Air structure data (rawinsonde) were collected at the following sites.

SITE AND TIME	
LANA	1000 MDT
RITA	1050 MDT
LANA	1100 MDT
RITA	1200 MDT

WSMR METEOROLOGICAL SITES




DEAD HORSE
MET SITE
NORTH
WEST
1 inch = 1000 ft
Y493,000
X521,000
X523,000
Y491,000
BASE
#107
EAST
#108
LINE
OF
FIRE
L-598
30 meter
Anemometer tower
Y489,000
SOUTH
#106
318
9
Y487,000

PROJECT SURFACE OBSERVATION

TABLE 1

DATE 25 DAY Aug MONTH 82 YEAR

[illegible] Y= 195,560.28 H= 4126.31

TIME M D J	PRESSURE mbs	TEMPERATURE °F	TEMPERATURE °C	DEW POINT °F	DEW POINT °C	RELATIVE HUMIDITY %	[illegible]	[illegible] kts	[illegible] kts	VISIBILITY
1200	878.2		24.5		17.7	66	1018	[illegible]		50

OBSTRUCTIONS TO VISIBILITY	CLOUDS 1st LAYER AMT	TYPE	HGT	2nd LAYER AMT	TYPE	HGT	3rd LAYER AMT	TYPE	HGT	REMARKS
	1	SC	1,000	3	CB	5,500	3	AC	12,[illegible]	

PSYCHROMETRIC COMPUTATION

TIME:	1200		
DRY BULB TEMP.	24.5		
WET BULB TEMP.	19.7		
WET BULB DEPR.	4.8		
DEW POINT	17.7		
RELATIVE HUMID.	66		

25 August 1982

MAL

1205 MDT

609,421.05

495,563.18

4,126.81

	CALM
116	02
119	02
124	02
123	02
115	02
103	02
097	03
131	04
148	08
151	08
161	08
179	10
MISG	
MISG	

Data obtained from Double
Theodolite Tracked
pilot-balloon observation

AIMING AND T-TIME COMPUTER MET MESSAGE

25 August 1982

LANA 1100 MDT

METCM1331062

251700125879

00027003 29760879

01059005 29660869

02155005 29490844

03277005 29310806

04369018 28950760

05355023 28560716

06350126 28250675

RITA 1200 MDT

METCM1332062

251800126879

00000000 29940879

01110002 29850869

02046002 29610844

03289004 29440806

04347011 29130760

05374020 28800717

06368024 28510676

SIGNIFICANT LEVEL DATA

STATION ALTITUDE 4173.44 FEET MSL
25 AUG. 2 1000 MST
ASCENSION NO. 2

23705200U2
LANA
TABLE 4

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
878.2	4173.4	22.8	16.8	78.0
876.2	4238.5	20.5	16.1	76.0
848.8	5139.8	18.7	13.3	71.0
789.2	7190.8	17.1	9.0	59.0
730.3	9349.2	12.9	6.3	68.0
699.0	10554.3	10.9	5.2	68.0
687.1	11025.7	10.1	2.9	61.0
657.5	12223.5	6.5	1.1	68.0
639.7	12963.4	4.9	3.4	90.0
624.7	13600.1	3.8	1.8	87.0
598.9	14723.7	1.2	-1.0	85.0

STATION ALTITUDE 4173.44 FEET MSL

25 AUG. 62 1000 MDT

ASCENSION NO. 2

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED SOUND KNOTS
4173.4	876.2	22.0	18.0	78.0	1027.5	672.3
4500.0	868.2	20.0	15.5	74.5	1023.9	669.7
5000.0	853.0	19.0	13.8	71.8	1010.1	668.2
5500.0	838.0	18.4	12.6	69.9	998.1	667.5
6000.0	823.3	18.0	11.6	68.0	978.6	666.7
6500.0	808.8	17.6	10.5	63.0	963.2	666.0
7000.0	794.6	17.2	9.4	60.1	947.6	665.3
7500.0	780.5	16.4	8.7	60.5	934.0	664.6
8000.0	766.6	15.2	8.1	62.4	921.2	663.9
8500.0	752.9	14.0	7.4	64.5	908.7	663.2
9000.0	739.5	12.8	6.8	66.5	896.2	662.5
9500.0	726.3	11.9	6.2	68.0	883.4	659.5
10000.0	713.2	11.4	5.7	68.0	868.9	656.5
10500.0	700.4	11.0	5.3	68.0	854.7	653.5
11000.0	687.7	10.1	3.1	61.4	842.2	650.5
11500.0	675.2	8.7	2.2	63.8	831.2	647.5
12000.0	662.9	7.3	1.5	66.7	820.4	653.5
12500.0	650.8	6.0	2.1	78.2	808.9	659.5
13000.0	638.8	4.8	3.3	89.8	796.9	651.5
13500.0	627.0	4.0	2.1	87.5	784.9	643.5
14000.0	615.4	2.9	.8	86.3	773.1	635.5
14500.0	604.0	1.7	-.5	85.4	762.0	627.5

STATION ALTITUDE 4173.44 FEET MSL
1000 MB
25 AUG. 82
ASCENSION NO. 2

MANDATORY LEVELS
23703200002
LAMA
TABLE 6

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

PRESSURE	GEOPOTENTIAL	TEMPERATURE		REL. HUM.	WIND DATA	
		AIR	DEWPOINT	PERCENT	DIRECTION	SPEED
MILLIBARS	FEET	DEGREES CENTIGRADE			DEGREES(TN)	KNOTS
850.0	5096.	1 [illegible]	13.5	71.	70.1	4.2
800.0	6804.	17.4	9.9	61.	109.0	7.3
750.0	8606.	13.8	7.3	65.	144.9	7.7
700.0	10506.	10.9	5.3	68.	197.3	10.8
650.0	12520.	5.9	2.[illegible]	77.	219.5	23.5
600.0	14658.	1.3	-.9	85.		

STATION ALTITUDE 4186.74 FEET MSL
25 AUG. 82 1050 MDT
ASCENSION NO. 1

SIGNIFICANT LEVEL DATA
23702100G1
KITA
TABLE 9

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	RELATIVE HUMIDITY PERCENT
879.3	4186.7	21.7	19.3	[illegible]
863.3	4710.6	20.0	15.8	[illegible]
850.0	5151.5	19.6	15.3	[illegible]
839.4	5507.1	19.0	13.2	[illegible]
827.0	5929.0	20.2	12.4	[illegible]
790.3	7211.5	17.5	7.3	[illegible]
772.1	7866.2	17.5	7.3	[illegible]
700.0	10589.1	10.8	3.6	[illegible]
598.1	14835.7	1.4	.8	[illegible]

STATION ALTITUDE 4186.7 FEET MSL
25 AUG. 82 1050 MDT
ASCENSION NO. 1

UPPER AIR DATA
(270210051
DATA

TABLE 1)

GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION (DEGREES TRUE)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4186.7	879.3	21.7	19.3	86.0	1026.9	672.2	100.0	1.9	1.000327
4500.0	869.7	20.7	17.1	80.0	1022.3	670.7	100.3	3.1	1.000314
5000.0	854.5	19.7	15.4	76.0	1015.5	669.3	100.5	5.0	1.000302
5500.0	839.6	19.0	13.2	69.1	994.3	666.2	100.6	6.8	1.000289
6000.0	824.9	20.1	12.2	60.4	975.8	669.3	120.1	7.0	1.000280
6500.0	810.5	19.0	10.2	56.5	960.6	667.8	153.3	8.1	1.000269
7000.0	796.2	17.9	8.1	52.6	946.0	666.4	175.1	11.5	1.000260
7500.0	782.2	17.5	7.3	51.0	932.9	665.8	186.4	16.2	1.000254
8000.0	768.4	17.2	7.1	51.5	917.4	665.4	189.5	20.4	1.000250
8500.0	754.7	15.9	6.5	53.3	905.0	664.0	190.3	24.1	1.000246
9000.0	741.2	14.7	5.8	55.2	892.6	662.5	189.5	25.3	1.000241
9500.0	728.0	13.5	5.1	57.0	880.7	661.1	186.3	26.0	1.000237
10000.0	715.0	12.2	4.4	58.8	868.9	659.6	186.2	25.7	1.000233
10500.0	702.2	11.0	3.7	60.7	857.2	658.1	185.1	25.0	1.000228
11000.0	689.4	9.9	3.5	64.4	844.9	656.8	184.3	24.0	1.000225
11500.0	676.8	8.8	3.3	68.5	832.8	655.6	185.3	22.2	1.000223
12000.0	664.4	7.7	3.1	72.6	820.5	654.3	188.7	21.2	1.000219
12500.0	652.2	6.6	2.8	76.7	808.7	653.0	195.6	21.2	1.000216
13000.0	640.2	5.5	2.4	80.9	797.0	651.7	202.5	21.6	1.000213
13500.0	628.4	4.4	2.1	85.0	785.5	650.4			1.000210
14000.0	616.9	3.2	1.6	89.1	774.2	649.1			1.000207
14500.0	605.6	2.1	1.2	93.2	763.1	647.7			1.000203

STATION ALTITUDE 4186.74 FEET MSL
25 AUG. 82 1050 MDT
ASCENSION NO. 1

MANDATORY LEVELS
2370210001
RITA

TABLE 11

[illegible] COORDINATES
[illegible] LAT DEG
106.[illegible] LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES	WIND DATA SPEED KNOTS
850.0	5148.	19.6	15.3	76.	100.6	9.5
800.0	6863.	18.2	8.7	54.	170.4	19.4
750.0	8672.	15.5	6.2	54.	190.8	23.5
700.0	10579.	10.8	3.6	61.	185.0	24.8
650.0	12594.	6.4	2.7	77.	197.9	21.2
600.0	14735.	1.6	.9	95.		

STATION ALTITUDE 4173.44 FEET MSL
25 AUG. 82 1100 MDT
ASCENSION NO. 3

SIGNIFICANT LEVEL DATA
23703.0005
LANA

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

TABLE 12

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT
879.0	4173.4	21.1	16.5	69.0
873.5	4352.7	21.2	16.2	63.0
851.0	5095.8	19.5	15.6	79.0
824.5	5992.6	19.3	12.6	65.0
786.5	7323.1	17.0	9.4	61.0
766.6	8041.6	16.4	7.5	55.0
719.3	9808.6	11.2	4.9	65.0
701.3	10504.0	10.2	4.6	69.0
650.8	12536.4	6.1	2.4	77.0
633.4	13269.5	4.2	2.4	88.0
607.7	14369.5	1.6	-.1	92.0
599.2	14742.4	.6	-.4	93.0

UPPER AIR DATA

STATION ALTITUDE 4173.44 FEET MSL
25 AUG. 32 1100 MDT
ASCENSION NO. 3

2370320003
LANA
TABLE 13

GEODETIC COORDINATES
[illegible] LAT DEG
[illegible] LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL. HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4173.4	879.0	21.1	18.5	85.0	1031.1	671.4	15.0	[illegible]	1.000323
4500.0	869.0	20.9	17.7	82.2	1020.5	671.0	35.0	[illegible]	1.000317
5000.0	853.9	19.7	16.1	79.5	1007.4	669.4	76.5	[illegible]	1.000305
5500.0	839.0	19.4	14.4	72.7	991.6	668.8	106.8	[illegible]	1.000294
6000.0	824.3	19.3	12.5	65.0	975.4	668.4	125.8	[illegible]	1.000282
6500.0	809.8	18.4	11.4	63.5	961.4	667.3	157.9	4.9	1.000274
7000.0	795.6	17.6	10.2	62.0	947.7	666.2	184.7	[illegible]	1.000267
7500.0	781.6	16.9	8.9	59.5	935.6	665.3	199.5	[illegible]	1.000260
8000.0	767.7	16.4	7.5	55.3	918.9	664.7	230.1	[illegible]	1.000252
8500.0	754.0	15.1	6.8	57.6	906.9	663.8	267.7	19.6	1.000247
9000.0	740.6	13.6	6.1	60.4	895.4	663.3	280.4	20.7	1.000243
9500.0	727.3	12.1	5.3	63.3	884.1	[illegible]	281.6	21.7	1.000239
10000.0	714.3	10.9	4.9	66.1	871.9	658.1	[illegible]	[illegible]	1.000235
10500.0	701.4	10.2	4.8	69.0	858.3	657.3	[illegible]	[illegible]	1.000232
11000.0	688.6	9.2	4.2	71.0	845.8	656.1	197.7	[illegible]	1.000228
11500.0	676.1	8.2	3.6	72.9	833.4	654.9	[illegible]	[illegible]	1.000224
12000.0	663.8	7.2	3.0	74.9	821.3	653.7	194.4	[illegible]	1.000220
12500.0	651.7	6.2	2.4	76.9	809.3	652.5	194.4	[illegible]	1.000216
13000.0	639.7	4.9	2.4	84.0	798.0	651.9	[illegible]	[illegible]	1.000213
13500.0	627.9	3.5	1.9	88.8	787.2	649.4	195.0	[illegible]	1.000210
14000.0	616.2	2.1	.7	90.7	776.9	647.6			1.000205
14500.0	604.7	.9	-.2	92.3	765.9	646.1			1.000201

STATION ALTITUDE 4173.44 FEET MSL
25 AUG. 82 1100 MDT
ASCENSION NO. 3

MANDATORY LEVELS
2370320003
LANA

TABLE 14

GEODETIC COORDINATES
33.13510 LAT DEG
106.15446 LON DEG

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS
850.0	5126.	19.5	15.7	78.	87.7	2.5
800.0	6839.	17.8	10.6	62.	175.2	5.4
750.0	8645.	14.6	6.6	58.	207.8	20.4
700.0	10545.	10.1	4.7	69.	198.1	26.1
650.0	12557.	6.0	2.4	77.	194.6	22.9
600.0	14690.	.6	-.4	93.		

STATION ALTITUDE 4186.74 FEET MSL
25 AUG. 82 1200 MDT
ASCENSION NO. 2

SIGNIFICANT LEVEL DATA
2370210002
RITA
TABLE 19

PRESSURE MILLIBARS	GEOMETRIC ALTITUDE MSL FEET	TEMPERATURE AIR DEGREES	DEWPOINT CENTIGRADE	RELATIVE PERCENT
878.6	4186.7	23.6	17.0	70.0
850.0	5135.5	21.2	16.2	73.0
839.6	5486.1	19.7	16.5	82.0
813.8	6372.6	20.1	12.1	60.0
775.6	7730.7	17.2	7.0	61.0
719.6	9826.8	14.7	6.5	57.0
700.0	10592.7	12.6	4.0	54.0
671.6	11731.9	10.2	2.0	59.0
665.2	11994.1	9.6	7.0	84.0
644.8	12841.9	6.5	5.8	95.0
612.2	14240.3	4.6	.4	74.0
595.2	14994.2	3.1	-.4	78.0

UPPER AIR DATA
2370210002
RITA
TABLE 16

STATION ALTITUDE 4186.74 FEET SL
25 AUG. 82 1200 MDT
ASCENSION NO. 2

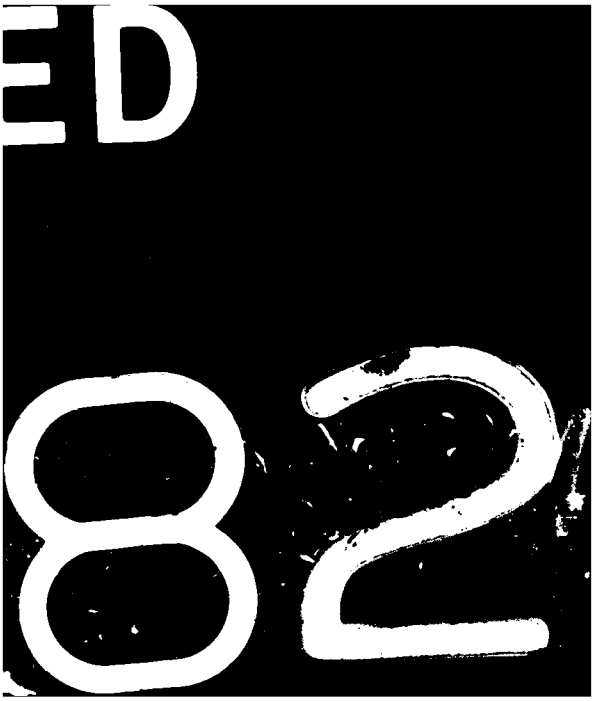
GEODETIC COORDINATES
33.18295 LAT DEG
106.15114 LON DEG

GEOMETRIC ALTITUDE MSL FEET	PRESSURE MILLIBARS	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	DENSITY GM/CUBIC METER	SPEED OF SOUND KNOTS	WIND DATA DIRECTION DEGREES(TN)	WIND DATA SPEED KNOTS	INDEX OF REFRACTION
4186.7	870.6	23.6	17.8	70.0	1022.4	674.1	.0	.0	1.000316
4500.0	869.1	22.8	17.3	71.0	1014.2	673.1	135.9	.3	1.000311
5000.0	854.0	21.5	16.4	72.6	1001.2	671.6	135.9	.8	1.000305
5500.0	839.2	19.7	16.5	81.7	989.8	669.5	135.9	1.3	1.000304
6000.0	824.5	19.9	14.1	69.2	972.8	669.4	143.7	1.9	1.000288
6500.0	810.1	19.8	11.9	60.1	957.0	669.0	158.5	3.3	1.000275
7000.0	795.9	18.8	11.0	60.5	943.9	667.7	168.9	4.8	1.000269
7500.0	782.0	17.7	10.0	60.8	931.0	666.4	178.8	6.4	1.000263
8000.0	768.2	16.9	9.2	60.5	917.4	665.4	191.2	8.9	1.000257
8500.0	754.6	16.3	8.4	59.5	903.2	664.6	201.4	12.5	1.000251
9000.0	741.2	15.7	7.6	58.6	889.2	663.9	206.6	15.4	1.000246
9500.0	728.1	15.1	6.8	57.6	875.4	663.1	209.7	18.2	1.000240
10000.0	715.1	14.2	6.0	57.5	862.6	662.1	210.7	20.5	1.000235
10500.0	702.3	12.9	5.0	58.8	851.5	660.4	210.3	22.5	1.000230
11000.0	689.7	11.7	4.0	59.0	839.6	659.0	208.9	24.0	1.000225
11500.0	677.3	10.7	3.0	59.0	827.7	657.7	206.0	23.4	1.000220
12000.0	665.1	9.6	7.0	84.1	814.6	656.9	202.6	22.4	1.000229
12500.0	653.0	7.8	6.3	90.6	805.3	654.8	199.9	23.2	1.000225
13000.0	641.0	6.3	5.2	92.6	795.0	652.9	198.4	24.6	1.000220
13500.0	629.2	5.6	3.3	85.1	782.7	652.0	199.0	27.1	1.000212
14000.0	617.7	4.9	1.4	77.6	770.6	651.0			1.000205
14500.0	606.3	4.1	.1	75.4	758.9	649.9			1.000200

STATION ALTITUDE 4186.74 FEET MSL
25 AUG. 82 1200 MDT
ASCENSION NO. 2

MANDATORY LEVELS
2370210002
RITA
TABLE 17

PRESSURE MILLIBARS	GEOPOTENTIAL FEET	TEMPERATURE AIR DEGREES CENTIGRADE	TEMPERATURE DEWPOINT CENTIGRADE	REL.HUM. PERCENT	WIND DATA DIRECTION DEGREES TRUE	WIND DATA SPEED KNOTS
850.0	5132.	21.2	16.2	73.	[illegible]	[illegible]
800.0	6852.	19.1	11.2	60.	[illegible]	[illegible]
750.0	8665.	16.1	8.1	59.	[illegible]	13.5
700.0	10583.	12.6	4.8	59.	[illegible]	22.7
650.0	12611.	7.3	6.1	92.	[illegible]	25.4
600.0	14763.	3.5	-.1	77.		


ED
82